

AMENDMENTS TO THE CLAIMS

1 1. (Currently Amended) A sand screen for use in production of hydrocarbons from
2 wells, comprising an intelligent completions device disposed in the sand screen,
3 wherein the intelligent completions device comprises a sensor selected from the
4 group consisting of a temperature sensor, a flow rate measurement device, a scale detector, and a
5 sand detection device.

1 2. (Cancelled)

1 3. (Currently Amended) The sand screen of claim 1, wherein the intelligent
2 completions device comprises [[a]] the temperature sensor.

1 4. (Cancelled)

1 5. (Currently Amended) The sand screen of claim 1, wherein the intelligent
2 completions device comprises [[a]] the flow rate measurement device.

1 6. (Cancelled)

1 7. (Currently Amended) The sand screen of claim 1, wherein the intelligent
2 completions device comprises [[a]] the scale detector.

1 8. (Currently Amended) The sand screen of claim 1, wherein the intelligent
2 completions device comprises [[a]] the sand detection device.

1 9. (Currently Amended) A gravel pack system, comprising:
2 a sand screen; and
3 an intelligent completions device disposed within the sand screen, wherein the
4 intelligent completions device comprises a sensor selected from the group consisting of a
5 temperature sensor, a flow rate measurement device, a scale detector, and a sand detection
6 device.

1 10. (Currently Amended) The gravel pack system of claim 9, wherein the intelligent
2 completions device comprises ~~a sensor~~ the flow rate measurement device.

1 11. (Currently Amended) The gravel pack system of claim 9, wherein the intelligent
2 completions device comprises ~~[[a]]~~ the temperature sensor.

1 12. (Currently Amended) The gravel pack system of claim 9, wherein the intelligent
2 completions device comprises ~~a pressure sensor~~ the scale detector.

1 13. (Currently Amended) The gravel pack system of claim 9, wherein the intelligent
2 completions device ~~is selected from a flow rate measurement device, an oil/water/gas ratio~~
3 ~~measurement device, a scale detector, and a~~ comprises the sand detection device.

1 14. (Previously Presented) A gravel pack system comprising:
2 a sand screen;
3 an intelligent completions device disposed within the sand screen; and
4 a fiber optic cable.

1 15. (Original) The gravel pack system of claim 9, further comprising a control line
2 connected to the intelligent completions device.

1 16. (Original) The gravel pack system of claim 15, wherein the control line is selected
2 from an electric line and a fiber optic line.

1 17. (Original) The gravel pack system of claim 9, further comprising a control line
2 extending from the surface to the intelligent completions device.

1 18. (Currently Amended) A method for placing a gravel pack around a completion,
2 comprising:
3 gathering data from an intelligent completions device disposed in a sand screen of
4 the completion, the intelligent completions device selected from the group consisting of a
5 temperature sensor, a flow rate measurement device, a scale detector, and a sand detection
6 device; and
7 flowing a gravel slurry into the assembly wherein a gravel is deposited between
8 the sand screen and a formation.

1 19. (Cancelled)

1 20. (Currently Amended) A method of monitoring a well characteristic of a well,
2 comprising:
3 running a control line to an intelligent completions device disposed in a sand
4 screen, the intelligent completions device selected from the group consisting of a temperature
5 sensor, a flow rate measurement device, a scale detector, and a sand detection device;
6 running the sand screen into the well; and
7 sending a signal through the control line.

1 21. (Cancelled)

1 22. (Cancelled)

1 23. (Cancelled)

1 24. (Original) A method for gravel packing a well, comprising:
2 running a sand screen into a particular length of the well;
3 extending a fiber optic line into the particular length of the well; and
4 gravel packing the well.

1 25. (Original) The method of claim 24, further comprising performing the running
2 step at substantially the same time as the extending step.

1 26. (Original) The method of claim 24, further comprising performing the running
2 step before the extending step.

1 27. (Currently Amended) A well completion, comprising:
2 a sand screen;
3 an intelligent device disposed within the sand screen, the intelligent device
4 selected from the group consisting of a temperature sensor, a flow rate measurement device, a
5 scale detector, a sand detection device, and a flow control device; and
6 a service string adapted to perform sand-control pumping and circulation
7 operations.

1 28. (Previously Presented) The gravel pack system of claim 9, further comprising an
2 assembly to perform a gravel pack operation.

1 29. (Previously Presented) The method of claim 20, further comprising performing
2 sand-control pumping and circulation operations.

1 30. (New) A sand screen for use in production of hydrocarbons from wells,
2 comprising an intelligent completions device disposed in the sand screen,
3 wherein the intelligent completions device comprises a device selected from the
4 group consisting of a temperature sensor, a flow rate measurement device, a scale detector, a
5 sand detection device, and a flow control device.

1 31. (New) A gravel pack system, comprising:
2 a sand screen; and
3 an intelligent completions device disposed within the sand screen, wherein the
4 intelligent completions device comprises a sensor selected from the group consisting of a
5 temperature sensor, a flow rate measurement device, a scale detector, a sand detection device,
6 and a flow control device

1 32. (New) A method of monitoring a well characteristic of a well, comprising:
2 running a control line to an intelligent completions device disposed in a sand
3 screen, the intelligent completions device selected from the group consisting of a temperature
4 sensor, a flow rate measurement device, a scale detector, a sand detection device, and a flow
5 control device;
6 running the sand screen into the well; and
7 sending a signal through the control line.